computation of the limiting case. Wolff has not attempted to determine this limiting case nor has he computed the third moment. He has used the second moment only incidentally in determining what he calls a "coefficient of variation," which is not, however, the same quantity as is generally understood by the term. Wolff's "coefficient of variation" is defined as

$$\frac{2\sigma}{s} = \frac{2 \times 1.312 \text{ meters}}{3.993} = 0.567 \text{ meters},$$

where $\sigma = \text{standard deviation}$

and $s = h_0 \max - h_0 \min$

when h_0 max = mean of the annual maxima of gage heights

 $h_0 \min = \text{mean of the annual minima of gage heights}$

M = mean gage height $\eta_2 = M + \frac{1}{2}(h_0 max - M)$ $\eta_1 = M - \frac{1}{2}(M - h_0 min)$

It is easily seen that η_2 represents a gage height midway between M and h_0 max., and η_1 a height midway between M and h_0 min.

Stages above η_2 are designated as "high-water stages"; they obtained on an average of 55 days a year (1904–1915). Stages below η_1 are "low-water stages"; they obtained on an average of 104 days a year. Stages between these limits are "ordinary stages"; they obtained on an average of 206 days a year (1904–1915). Although the published material is wholly tabular and

graphic, the frequency polygon shows clearly the occurrence of different stages of the Parana; this polygon, while skewed, is regular without breaks, and the tables furnish data which may be studied by modern statistical methods. If these methods are applied to stream-flow data, it seems probable that the average frequencies of various stages can be determined in the limiting case and these determinations should be of value in studies of floods, water supply, and water rights.

MEAN LAKE LEVELS DURING MARCH, 1917.

By United States Lake Survey.

[Dated: Detroit, Mich., Apr. 5, 1917.]

The following data are reported in the "Notice to Mariners" of the above date:

Data.	Lakes.*			
	Superior.	Michigan and Huron.	Erie.	Ontario.
Mean level during March, 1917: Above mean sealerel at New York Above or below—	Fret, 602, 33	Fcct. 580. 46	Feet. 571. 53	Feet. 245. 17
Mean stage of February, 1917 Mean stage of March, 1916. Average stage for March, last 10 years. Highest recorded March stage	+0.18	+1.02 +0.55	+0.18 -0.34 -0.26 -2.32	
Lowest recorded March stage	+1.67	+1.35	+0.70	
February level	-0.2 ±0.0	±0.0 -0.2	+0. 1 -0. 6	+0.2 -0.5

^{*}Lake St. Clair's level: In February=574.87; March=574.79.